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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001
TIME: 15:32:45

Input Set : N:\Crf3\RULE60\09723752.txt
Output Set: N:\CRF3\12142001\I723752.raw

SEQUENCE LISTING

W--> 3 SEQUENCE LISTING

5 (1) GENERAL INFORMATION:

7 (i) APPLICANT: Baca, Manuel

8 Wells, James A.

9 Presta, Leonard G.

10 Lowman, Henry B.

11 Chen, Yvonne M.

13 (ii) TITLE OF INVENTION: ANTI-VEGF ANTIBODIES

15 (iii) NUMBER OF SEQUENCES: 131

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: Genentech, Inc.

19 (B) STREET: 1 DNA Way

20 (C) CITY: South San Francisco

21 (D) STATE: California

22 (E) COUNTRY: USA

23 (F) ZIP: 94080

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

27 (B) COMPUTER: IBM PC compatible

28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

29 (D) SOFTWARE: WinPatin (Genentech)

31 (vi) CURRENT APPLICATION DATA:

C--> 32 (A) APPLICATION NUMBER: US/09/723,752

C--> 33 (B) FILING DATE: 27-Nov-2000

34 (C) CLASSIFICATION:

36 (vii) PRIOR APPLICATION DATA:

37 (A) APPLICATION NUMBER: 08/908,469

38 (B) FILING DATE: 1997-08-06

40 (viii) ATTORNEY/AGENT INFORMATION:

41 (A) NAME: Cui, Steven X.

42 (B) REGISTRATION NUMBER: 44,637

43 (C) REFERENCE/DOCKET NUMBER: P1093P1

45 (ix) TELECOMMUNICATION INFORMATION:

46 (A) TELEPHONE: 650/225-8674

47 (B) TELEFAX: 650/952-9881

48 (2) INFORMATION FOR SEQ ID NO: 1:

50 (i) SEQUENCE CHARACTERISTICS:

51 (A) LENGTH: 10 amino acids

52 (B) TYPE: Amino Acid

53 (D) TOPOLOGY: Linear

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

57 Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn

58 1 5 10

60 (2) INFORMATION FOR SEQ ID NO: 2:

62 (i) SEQUENCE CHARACTERISTICS:

63 (A) LENGTH: 17 amino acids

ENTERED

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```

64          (B) TYPE: Amino Acid
65          (D) TOPOLOGY: Linear
67      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
69  Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe
70      1              5              10              15
72  Lys Arg
75  (2) INFORMATION FOR SEQ ID NO: 3:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 14 amino acids
79          (B) TYPE: Amino Acid
80          (D) TOPOLOGY: Linear
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
84  Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val
85      1              5              10
87  (2) INFORMATION FOR SEQ ID NO: 4:
89      (i) SEQUENCE CHARACTERISTICS:
90          (A) LENGTH: 11 amino acids
91          (B) TYPE: Amino Acid
92          (D) TOPOLOGY: Linear
94      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
96  Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
97      1              5              10
99  (2) INFORMATION FOR SEQ ID NO: 5:
101     (i) SEQUENCE CHARACTERISTICS:
102         (A) LENGTH: 7 amino acids
103         (B) TYPE: Amino Acid
104         (D) TOPOLOGY: Linear
106     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
108  Phe Thr Ser Ser Leu His Ser
109      1              5
111  (2) INFORMATION FOR SEQ ID NO: 6:
113     (i) SEQUENCE CHARACTERISTICS:
114         (A) LENGTH: 9 amino acids
115         (B) TYPE: Amino Acid
116         (D) TOPOLOGY: Linear
118     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
120  Gln Gln Tyr Ser Thr Val Pro Trp Thr
121      1              5
123  (2) INFORMATION FOR SEQ ID NO: 7:
125     (i) SEQUENCE CHARACTERISTICS:
126         (A) LENGTH: 123 amino acids
127         (B) TYPE: Amino Acid
128         (D) TOPOLOGY: Linear
130     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
132  Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
133      1              5              10              15
135  Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
136              20              25              30
138  Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu

```

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```

139           35           40           45
141 Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
142           50           55           60
144 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
145           65           70           75
147 Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
148           80           85           90
150 Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
151           95          100          105
153 Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr
154          110          115          120
156 Val Ser Ser

```

159 (2) INFORMATION FOR SEQ ID NO: 8:

161 (i) SEQUENCE CHARACTERISTICS:

162 (A) LENGTH: 108 amino acids

163 (B) TYPE: Amino Acid

164 (D) TOPOLOGY: Linear

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

```

168 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
169 1           5           10          15
171 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
172           20          25          30
174 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
175           35          40          45
177 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
178           50          55          60
180 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
181           65          70          75
183 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
184           80          85          90
186 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
187           95         100         105
189 Ile Lys Arg

```

192 (2) INFORMATION FOR SEQ ID NO: 9:

194 (i) SEQUENCE CHARACTERISTICS:

195 (A) LENGTH: 123 amino acids

196 (B) TYPE: Amino Acid

197 (D) TOPOLOGY: Linear

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

```

201 Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Gln Pro Gly
202 1           5           10          15
204 Glu Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
205           20          25          30
207 Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
208           35          40          45
210 Lys Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
211           50          55          60
213 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Glu Thr Ser
214          65          70          75

```

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216 Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp
 217 80 85 90
 219 Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
 220 95 100 105
 222 Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr
 223 110 115 120
 225 Val Ser Ser

228 (2) INFORMATION FOR SEQ ID NO: 10:

230 (i) SEQUENCE CHARACTERISTICS:

231 (A) LENGTH: 108 amino acids

232 (B) TYPE: Amino Acid

233 (D) TOPOLOGY: Linear

235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

237 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu
 238 1 5 10 15
 240 Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser
 241 20 25 30
 243 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys
 244 35 40 45
 246 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
 247 50 55 60
 249 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile
 250 65 70 75
 252 Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
 253 80 85 90
 255 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
 256 95 100 105
 258 Ile Lys Arg

261 (2) INFORMATION FOR SEQ ID NO: 11:

263 (i) SEQUENCE CHARACTERISTICS:

264 (A) LENGTH: 113 amino acids

265 (B) TYPE: Amino Acid

266 (D) TOPOLOGY: Linear

268 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

270 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 271 1 5 10 15
 273 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 274 20 25 30
 276 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 277 35 40 45
 279 Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr
 280 50 55 60
 282 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
 283 65 70 75
 285 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 286 80 85 90
 288 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln
 289 95 100 105
 291 Gly Thr Leu Val Thr Val Ser Ser

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292             110
294 (2) INFORMATION FOR SEQ ID NO: 12:
296   (i) SEQUENCE CHARACTERISTICS:
297       (A) LENGTH: 108 amino acids
298       (B) TYPE: Amino Acid
299       (D) TOPOLOGY: Linear
301   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
303   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
304     1             5             10             15
306   Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
307             20             25             30
309   Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
310             35             40             45
312   Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
313             50             55             60
315   Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
316             65             70             75
318   Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
319             80             85             90
321   Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
322             95            100            105
324   Ile Lys Arg
327 (2) INFORMATION FOR SEQ ID NO: 13:
329   (i) SEQUENCE CHARACTERISTICS:
330       (A) LENGTH: 107 amino acids
331       (B) TYPE: Amino Acid
332       (D) TOPOLOGY: Linear
334   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
336   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
337     1             5             10             15
339   Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
340             20             25             30
342   Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
343             35             40             45
345   Leu Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
346             50             55             60
348   Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
349             65             70             75
351   Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
352             80             85             90
354   Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
355             95            100            105
357   Ile Lys
360 (2) INFORMATION FOR SEQ ID NO: 14:
362   (i) SEQUENCE CHARACTERISTICS:
363       (A) LENGTH: 123 amino acids
364       (B) TYPE: Amino Acid
365       (D) TOPOLOGY: Linear
367   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/723,752

DATE: 12/14/2001

TIME: 15:32:47

Input Set : N:\Crf3\RULE60\09723752.txt

Output Set: N:\CRF3\12142001\I723752.raw

L:3 M:244 W: Invalid beginning of sequence listing, Data=[SEQUENCE LISTING], Duplicate Sequence Listing Title!

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119

L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120

L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121

L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122

L:2520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123

L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125

L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126

L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127

L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127

L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127

L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130

L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131